

Francis Edward Treloar

E. EDWARDS McKINNON

F. E. TRELOAR died 28 February 1980 while at a scientific conference on polymer chemistry at Lorne, Victoria. His sudden and untimely death came as a great shock to all who knew him and his passing has created a void that will be difficult to fill. He will be missed not only in his primary field, physical chemistry, where he was a dedicated and popular teacher, but also in the field of Southeast Asian archaeology, where he pioneered much important work in the chemical analysis of artifacts.

His interest in Southeast Asian archaeological metallurgy and the use of chemical techniques to identify and date archaeological specimens dates from 1961 when he was lecturing at the University of Malaya and became intrigued with Alastair Lamb's work in Kedah. In 1964 he took up his appointment with the Department of Physical Chemistry at the University of Melbourne but continued to be actively interested in archaeological matters. He made several field trips to Southeast Asia and established a well-deserved international reputation for new and useful contributions to Southeast Asian archaeology. He had worked on glass and metallic artifacts from Malaya, Sarawak, and, latterly, Sumatra. Just before his death he was collaborating with Mrs. Ann Manning and myself in the analysis of gold and other artifacts from the north Sumatran site of Kota Cina.

Treloar's passing, at a time when he was making important contributions to a new branch of archaeological science, leaves one wondering what direction his ideas may have taken had he been spared.

I am indebted to Professor R. A. Lang for the following checklist of Dr Treloar's papers.

ARCHAEOLOGICAL PAPERS BY F. E. TRELOAR

- 1967 Examination of archaeological remains from Kedah, Malaya. *Atomic Energy in Australia* 10(3):20-25.
Ritual objects illustrating Indian alchemy and Tantric religious practice. *Isis* 58:396-397.
- 1968 Chemical analysis of some metal objects from Chandi Bukit Batu Pahat, Kedah: suggested origin and date. *JMBRAS* 41:193-198.
- 1972 Stoneware bottles in the Sarawak Museum: vessels for mercury trade? *SMJ* 20:377-384.
The use of mercury in metal ritual objects as a symbol of Siva. *Artibus Asiae* 34:232-240.
- 1975 With G. J. FABRIS. Evidence for the contemporary existence of two Kedah sites. *JMBRAS* 48:74-77.

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- 1976 Chemical approaches to archaeological problems. *Proceedings of the Royal Australian Chemical Institute* 43:31–36.
- The use of chemical analysis of metal artifacts in archaeological investigation with special references to Malaysian bronzes, in *Ancient Chinese Bronzes and Southeast Asian Metal and Other Archaeological Artifacts*: 421–439, ed. Noel Barnard. Melbourne: National Gallery of Victoria.
- 1977 With W. D. DAVIES. The application of racemisation dating in archaeology: a critical review. *The Artefact* 2:63–94.
- 1978 The composition of gold artifacts from Santubong and Gedong, Sarawak. *SMJ* 25:9–18.
- 1979 A priest's bell and a temple lamp: reinterpretations of the function of some Kedah artifacts. *JMBRAS* 52:48–50.
- 1980 With G. J. FABRIS. X-ray fluorescence and atomic absorption analysis of Sarawak gold artifacts. *Archeometry* 22(1):93–98.
- Arab-Chinese entrepot trade in Kedah Malaysia: evidence from chemical composition of metal objects, in *The Diffusion of Material Culture* (R. Heine-Geldern Memorial Volume): 351–370, ed. H. H. Loofs-Wissowa. Asian and Pacific Archaeology Series No. 9. Honolulu: Social Science Research Institute, University of Hawaii.
- With A. MANNING and E. EDWARDS MCKINNON. Analysis of gold artifacts from the Kota Cina Site, near Medan, Sumatra. *JMBRAS* 53(2):102–116.